

Substitute for Form 1449 A & B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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of

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Complete if Known

Application Number	09/993,292
Confirmation Number	5386
Filing Date	November 23, 2001
First Named Inventor	James E. GALEN
Art Unit	1645
Examiner Name	Unknown
Attorney Docket Number	A8461

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
PAO		US 5,731,151		03/24/1998	Munday et al. King et al.

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ² (if known)			
PAO		WO	94 28137		12/08/1994	Munday et al. King et al.	
PAO		WO	01 75067		10/11/2001	Hyseq Inc.	

OTHER ART - NON PATENT LITERATURE DOCUMENTS

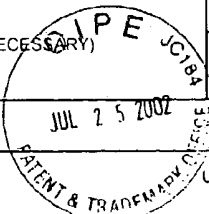
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
PAO		Tzschaschel et al, <i>Nature Biotechnology</i> , 14:765-769 (1996)	
		Gentshev et al, <i>Behring Institute Mitteilungen</i> , 98:103-113 (1997)	
		Ryan et al, <i>Infection and Immunity</i> , 65(7):2941-2949 (1997)	
		Hahn et al, <i>FEMS Immunology and Medical Microbiology</i> , 20(2):111-119 (1998)	

Examiner Signature	Patricia A. Duffy	Date Considered	12/14/03
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UOFMD.007A	APPLICATION NO. 09/993,292
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Galen	
		FILING DATE November 23, 2001	GROUP 1645



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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
PAD	1	4,235,877	11/25/80	Fullerton			
	2	4,355,117	10/19/82	Antrim et al.			
	3	4,372,945	2/8/83	Likhite			
	4	4,474,757	10/2/84	Arnon et al.			
	5	4,665,027	5/12/87	Dale et al.			
	6	4,910,139	3/20/90	Chang et al.			
	7	5,387,744	2/7/95	Curtiss III, et al.			
	8	5,512,480	4/30/96	Sandstrom et al.			
	9	5,525,504	6/11/96	Goebel et al.			
	10	5,585,266	12/17/96	Plitt et al.			
	11	5,635,368	6/3/97	Lommi et al.			
	12	6,413,768	7/2/02	Galen			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	13	Atkins, A., N. R. Wyborn, A. J. Wallace, T. J. Stillman, L. K. Black, A. B. Fielding, M. Hisakado, P. J. Arlymiuk, and J. Green. 2000. Structure-function relationships of a novel bacterial toxin, hemolysin E. The role of <i>G. J. Biol. Chem.</i> 275:41150-41155.
	14	Bramucci, M. G. and V. Nagarajan. 1996. Direct selection of cloned DNA in <i>Bacillus subtilis</i> based on sucrose-induced lethality. <i>Appl. Environ. Microbiol.</i> 62:3948-3953.
	15	Corchero, J. L. and A. Villaverde. 1998. Plasmid maintenance in <i>Escherichia coli</i> recombinant cultures is dramatically, steadily, and specifically influenced by features of the encoded proteins. <i>Biotechnol. Bioeng.</i> 58:625-632.
	16	Cserjan-Puschmann, M., W. Kramer, E. Duerrschmid, G. Streidner, and K. Bayer. 1999. Metabolic approaches for the optimisation of recombinant fermentation processes. <i>Appl. Microbiol. Biotechnol.</i> 53:43-50.

EXAMINER PATRICIA A. DURY	DATE CONSIDERED 4/1/04
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UOFMD.007A	APPLICATION NO. 09/993,292
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Galen	RECEIVED JUL 29 2002 TECH CENTER 1600/2900
(USE SEVERAL SHEETS IF NECESSARY)		AGING DATE November 23, 2001	

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
17	del Castillo, F. J., S. C. Leal, F. Moreno, and I. del Castillo. 1997. The <i>Escherichia coli</i> K-12 <i>sheA</i> gene encodes a 34-kDa secreted haemolysin. <i>Mol. Microbiol.</i> 25:107-115.
18	Galen, J. E. and M. M. Levine. 2001. Can a 'flawless' live vector vaccine strain be engineered? <i>Trends in Microbiology</i> 9:372-376.
19	Hess et al., Feb. 1996, <i>Superior efficacy of secreted over somatic antigen display in recombinant salmonella vaccine induced protection against listeriosis</i> , <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 93, pp. 1458-1463
20	Ludwig, A., S. Bauer, R. Benz, B. Bergmann, and W. Goebel. 1999. Analysis of the <i>StyA</i> -controlled expression, subcellular localization and pore-forming activity of a 34 kDa haemolysin (ClyA) from <i>Escherichia coli</i> K-12. <i>Mol. Microbiol.</i> 31:557-567.
21	Wallace, A. J., T. J. Stillman, A. Atkins, S. J. Jamieson, P. A. Bullough, J. Green, and P. J. Artymiuk. 2000. <i>E. coli</i> hemolysin E (HlyE, ClyA, SheA): X-ray crystal structure of the toxin and observation of membrane pores by electron microscopy. <i>Cell</i> 100:265-276.

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